

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>MAUREEN L BRICKER</td><td>01/19/2009</td></tr><tr><td>LAURA E LEONARD</td><td>01/19/2009</td></tr><tr><td>TODD M KRUSE</td><td>01/20/2009</td></tr><tr><td>JAMES G VASSILAKIS</td><td>01/19/2009</td></tr><tr><td>SIMON R BARE</td><td>01/19/2009</td></tr></tbody></table>	Name	Execution Date	MAUREEN L BRICKER	01/19/2009	LAURA E LEONARD	01/19/2009	TODD M KRUSE	01/20/2009	JAMES G VASSILAKIS	01/19/2009	SIMON R BARE	01/19/2009	
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MAUREEN L BRICKER	01/19/2009												
LAURA E LEONARD	01/19/2009												
TODD M KRUSE	01/20/2009												
JAMES G VASSILAKIS	01/19/2009												
SIMON R BARE	01/19/2009												
RECEIVING PARTY DATA													
Name:	UOP LLC												
Street Address:	25 EAST ALGONQUIN ROAD												
Internal Address:	PATENT DEPARTMENT												
City:	DES PLAINES												
State/Country:	ILLINOIS												
Postal Code:	60017												
PROPERTY NUMBERS Total: 1													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12342708</td></tr></tbody></table>	Property Type	Number	Application Number:	12342708									
Property Type	Number												
Application Number:	12342708												
CORRESPONDENCE DATA													
Fax Number:	(847)391-2387												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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Address Line 4:	Morristown, NEW JERSEY 07962												
ATTORNEY DOCKET NUMBER:	H0019115												

CH \$40.00 12342708

500761169

PATENT
REEL: 022144 FRAME: 0708

NAME OF SUBMITTER:

ROSE A NAGEL

Total Attachments: 4

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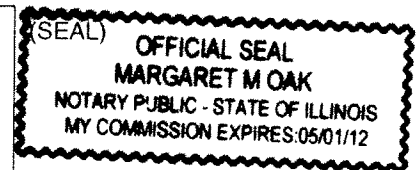
PATENT

REEL: 022144 FRAME: 0709

WHEREAS, **MAUREEN L. BRICKER**, a citizen of the United States of America, residing in Buffalo Grove, Illinois; **LAURA E. LEONARD**, a citizen of the United States of America, residing in Oak Park, Illinois; **TODD M. KRUSE**, a citizen of the United States of America, residing in Oak Park, Illinois; **JAMES G. VASSILAKIS**, a citizen of the United States of America, residing in Naperville, Illinois; and **SIMON R. BARE**, a citizen of the United States of America, residing in Wheaton, Illinois; and hereinafter referred to as "the inventors" have invented certain new and useful improvements in **METHODS FOR CONVERTING GLYCEROL TO PROPANOL**. WHEREAS, the inventors hereby authorize and request their attorney/agent of record to have inserted on each page (where indicated below) the filing date and application number of said application when known; and WHEREAS, UOP LLC, a company organized and existing under the laws of the State of Delaware having a principal place of business at Des Plaines, Illinois, is desirous of acquiring an interest in and to said application, the inventions disclosed therein, any corresponding foreign patent application disclosing the same invention and the Letters Patents of the United States and foreign countries that may be issued thereon. NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the inventors do hereby transfer, set over and assign unto UOP LLC, its successors and assigns, the entire right, title and interest in, to and under said application; the invention(s) covered thereby; any and all resultant patent or patents thereon; any renewals, reissues, extensions, reexaminations, substitutions, continuations, or divisions thereof, and all foreign rights thereunder including all rights to claim any priority in and to the inventions disclosed therein. Inventors hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said UOP LLC, its successors and assigns. IN WITNESS WHEREOF, the inventors have set their signatures hereunto on the date specified below.

Maureen L. Bricker
MAUREEN L. BRICKER
1/19/2009
 Date

State of Illinois; County of Cook
 This instrument was acknowledged before me on this 19th
 day of January, 2009, by **MAUREEN L. BRICKER**.
Margaret M. Oak
 Notary Public



Laura E. Leonard
LAURA E. LEONARD
January, 19 2009
 Date

State of Illinois; County of Cook
 This instrument was acknowledged before me on this 19th
 day of January, 2009, by **LAURA E. LEONARD**.
Margaret M. Oak
 Notary Public



TODD M. KRUSE
 Date

State of Illinois; County of Cook
 This instrument was acknowledged before me on this _____
 day of _____, 20____, by **TODD M. KRUSE**.

 Notary Public

(SEAL)

JAMES G. VASSILAKIS
 Date

State of Illinois; County of Cook
 This instrument was acknowledged before me on this _____
 day of _____, 20____, by **JAMES G. VASSILAKIS**.

 Notary Public

(SEAL)

SIMON R. BARE
 Date

State of Illinois; County of Cook
 This instrument was acknowledged before me on this _____
 day of _____, 20____, by **SIMON R. BARE**.

 Notary Public

(SEAL)

WHEREAS, **MAUREEN L. BRICKER**, a citizen of the United States of America, residing in Buffalo Grove, Illinois; **LAURA E. LEONARD**, a citizen of the United States of America, residing in Oak Park, Illinois; **TODD M. KRUSE**, a citizen of the United States of America, residing in Oak Park, Illinois; **JAMES G. VASSILAKIS**, a citizen of the United States of America, residing in Naperville, Illinois; and **SIMON R. BARE**, a citizen of the United States of America, residing in Wheaton, Illinois; and hereinafter referred to as "the inventors" have invented certain new and useful improvements in **METHODS FOR CONVERTING GLYCEROL TO PROPANOL**. WHEREAS, the inventors hereby authorize and request their attorney/agent of record to have inserted on each page (where indicated below) the filing date and application number of said application when known; and WHEREAS, UOP LLC, a company organized and existing under the laws of the State of Delaware having a principal place of business at Des Plaines, Illinois, is desirous of acquiring an interest in and to said application, the inventions disclosed therein, any corresponding foreign patent application disclosing the same invention and the Letters Patents of the United States and foreign countries that may be issued thereon. NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the inventors do hereby transfer, set over and assign unto UOP LLC, its successors and assigns, the entire right, title and interest in, to and under said application; the invention(s) covered thereby; any and all resultant patent or patents thereon; any renewals, reissues, extensions, reexaminations, substitutions, continuations, or divisions thereof, and all foreign rights thereunder including all rights to claim any priority in and to the inventions disclosed therein. Inventors hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said UOP LLC, its successors and assigns. IN WITNESS WHEREOF, the inventors have set their signatures hereunto on the date specified below.

MAUREEN L. BRICKER

 Date

State of Illinois; County of Cook

This instrument was acknowledged before me on this _____ day of _____, 20____, by **MAUREEN L. BRICKER**.

 Notary Public

(SEAL)

LAURA E. LEONARD

 Date

State of Illinois; County of Cook

This instrument was acknowledged before me on this _____ day of _____, 20____, by **LAURA E. LEONARD**.

 Notary Public

(SEAL)

Todd M. Kruse
TODD M. KRUSE

1/20/09
 Date

State of Illinois; County of Cook

This instrument was acknowledged before me on this *20th* day of *January*, 20*09*, by **TODD M. KRUSE**.

Susan Prosek
 Notary Public

(SEAL)

OFFICIAL SEAL
SUSAN PROSEK
 Notary Public - State of Illinois
 My Commission Expires Aug 14, 2012

JAMES G. VASSILAKIS

 Date

State of Illinois; County of Cook

This instrument was acknowledged before me on this _____ day of _____, 20____, by **JAMES G. VASSILAKIS**.

 Notary Public

(SEAL)

SIMON R. BARE

 Date

State of Illinois; County of Cook

This instrument was acknowledged before me on this _____ day of _____, 20____, by **SIMON R. BARE**.

 Notary Public

(SEAL)

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MAUREEN L. BRICKER

 Date

State of Illinois; County of Cook

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 Notary Public

(SEAL)

LAURA E. LEONARD

 Date

State of Illinois; County of Cook

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 Notary Public

(SEAL)

TODD M. KRUSE

 Date

State of Illinois; County of Cook

This instrument was acknowledged before me on this _____ day of _____, 20____, by **TODD M. KRUSE**.

 Notary Public

(SEAL)

James G. Vassilakis
JAMES G. VASSILAKIS

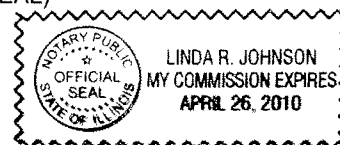
January 19, 2009
 Date

State of Illinois; County of Cook

This instrument was acknowledged before me on this *19th* day of *JAN*, 20*09*, by **JAMES G. VASSILAKIS**.

Linda R. Johnson
 Notary Public

(SEAL)



SIMON R. BARE

 Date

State of Illinois; County of Cook

This instrument was acknowledged before me on this _____ day of _____, 20____, by **SIMON R. BARE**.

 Notary Public

(SEAL)

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MAUREEN L. BRICKER

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State of Illinois; County of Cook

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 Notary Public

(SEAL)

LAURA E. LEONARD

 Date

State of Illinois; County of Cook

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 Notary Public

(SEAL)

TODD M. KRUSE

 Date

State of Illinois; County of Cook

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 Notary Public

(SEAL)

JAMES G. VASSILAKIS

 Date

State of Illinois; County of Cook

This instrument was acknowledged before me on this _____ day of _____, 20____, by **JAMES G. VASSILAKIS**.

 Notary Public

(SEAL)

Simon R. Bare

SIMON R. BARE

1/19/09

 Date

State of Illinois; County of Cook

This instrument was acknowledged before me on this *19* day of *JANUARY*, 20*09*, by **SIMON R. BARE**.

Wanda J. Crocker

 Notary Public

(SEAL)

OFFICIAL SEAL
WANDA J. CROCKER
 NOTARY PUBLIC - STATE OF ILLINOIS
 MY COMMISSION EXPIRES 01/29/11